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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
09/686,072	10/11/2000	David R. Welland	75622.P0016	5508		
30163	7590 07/12/2004		EXAMINER			
JOHNSON & ASSOCIATES			LE, DINH THANH			
PO BOX 90698 AUSTIN, TX 78709-0698			ART UNIT	PAPER NUMBER		
			2816			
			DATE MAILED: 07/12/2004			

Please find below and/or attached an Office communication concerning this application or proceeding.

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Office Action Summary		Application No.		Applicant(s)				
		09/686,072		WELLAND ET AL.				
		Examiner		Art Unit				
		DINH T. LE		2816				
The MAILING DATE f this communication appears n the cover sheet with the corresp ndenc address Period for Reply								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status								
1)⊠)⊠ Responsive to communication(s) filed on <u>13 April 2004</u> .							
2a)⊠	This action is FINAL . 2b) This action is non-final.							
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Disposition of Claims								
	Claim(s) 1,3,4,52-54,66-79 and 81-85 is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.							
·) Claim(s) is/are allowed.							
•	Claim(s) <u>1,3,4,52-54, 66-79 and 81-85</u> is/are rejected. Claim(s) is/are objected to.							
·		r election require	ment.					
8) Claim(s) are subject to restriction and/or election requirement. Application Papers								
9) The specification is objected to by the Examiner.								
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
11)☐ The proposed drawing correction filed on is: a)☐ approved b)☐ disapproved by the Examiner.								
If approved, corrected drawings are required in reply to this Office action.								
12) The oath or declaration is objected to by the Examiner.								
Priority under 35 U.S.C. §§ 119 and 120								
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).								
a) ☐ All b) ☐ Some * c) ☐ None of:								
1. Certified copies of the priority documents have been received.								
2. Certified copies of the priority documents have been received in Application No								
 Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).								
 a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. 								
Attachment(s)								
2) Notice	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s)	4)		(PTO-413) Paper No(s atent Application (PTO				

. Application/Control Number: 09/686,072

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FINAL REJECTION

Claims Rejections

Claim Rejections - 35 USC § 112

Claim 85 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Correction or clarification is required.

It is unclear how the divider can be 'selected" and how this step is read on the preferred embodiment. Insofar as understood, no such step is seen in the drawings.

Claim Rejections

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 3-4 and 52-54 and 66-79 and 81-85 are rejected under 35 USC 103 (a) as being unpatentable Bradley (US 6,087,865) in view of Dufour (US 6,111,470).

Bradley discloses in Figure 5 a PLL circuit (203) comprising a first divider (221) for receiving an input signal (198) having a frequency FIN and coupled to an input of a phase detector (213) of the PLL circuit through a second divider (220). Since the input frequency (FIN) was converted by the first and second dividers, the interference noise inherently would be reduced. However, Bradley does not disclose that the PLL circuit is implemented on an

by thirteen and other divider divides by five as recited in claim 3. Dufour teaches in Figure 1 a PLL circuit implemented on an integrated circuit for reducing size. It would have been obvious to a person having skill in the art at the time the invention was made to implement the PLL circuit of Bradley on an integrated circuit taught by Dufour for the purpose of reducing size. Note that the dividends (Q, R, M) of the dividers in the Bradley reference can be selectable, see column 7, lines 24-27, the divider comprising a counter clocked by a clock frequency or powering the components of the PLL with different power supply source for reducing noise are well known in the art. Thus, selecting the dividends of thirteen or five for the dividers of Bradley, selecting a clock frequency for providing a predetermined dividend or powering the components of the PLL circuit with different power supply sources would have been obvious and is considered to be a matter of design expedient for an engineer depending upon a particular application. *In re Boesch*, 617 F.2d 272, 205 USPQ 215 (CCPA 1980).

Response to Applicant's Arguments

The applicant argues that the Bradley does not suggest the use of fixed value or non-programmable dividers. The argument is not persuasive because the dividers (221, 220) are not adjustable dividers so that the values (Q, R) are the fixed values after they are selected to accommodate with the frequency plan of a particular application.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Examiner Dinh Le whose telephone number is (703) 305-3790. The examiner can normally be reached on Monday to Friday from 7:00 A.M.to 5:00 P.M..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tim Callahan, can be reached on (703) 308-4876. The fax phone number for this Group is (703) 308-7725.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0956.

DINH LE

Primary Examiner

July 6, 2004